Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-01-04-07 **Date: 11-11-19**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/174/2019-20
Date of Receipt	:	08-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-04-07** **Date: 11-11-19**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/174/2019-20
Date of Receipt	:	08-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-04-07** **Date: 11-11-19**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer Reference	:	BBMP/EE/YNK.D/W.O/174/2019-20
Date of Receipt	:	08-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-04-07 **Date: 11-11-19**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 08-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-04-07** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 12-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 12-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-04-07

Date: 02-12-19

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 28-11-19

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.3	7.6	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 22/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	150.73 X 149.84 X 150.95	22584	8.000	423.9	18.8	18.8
2	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.08 X 150.68 X 150.22	22464	8.071	422.8	18.8	
3	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	151.03 X 150.67 X 149.64	22755	8.283	426.4	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 22/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.93 X 150.52 X 149.05	22568	8.000	411.8	18.2	18.6
2	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.96 X 149.53 X 149.11	22424	8.071	416.4	18.6	
3	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	150.39 X 150.42 X 150.73	22622	8.283	429.5	19.0	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07

Date: 22/11/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	151.03 X 150.37 X 149.53	22710	8.000	418.6	18.4	18.6
2	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	150.05 X 150.10 X 149.72	22522	8.071	415.0	18.4	
3	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.92 X 149.60 X 149.93	22428	8.283	423.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 22/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	150.58 X 151.21 X 151.64	22769	8.000	431.4	18.9	18.7
2	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	150.86 X 151.80 X 149.80	22900	8.071	423.1	18.5	
3	Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.67 X 149.77 X 151.20	22415	8.283	420.2	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 27/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.56 X 149.80 X 151.66	22553	8.000	409.1	18.1	18.4
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	149.65 X 151.81 X 151.82	22719	8.071	422.0	18.6	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.09 X 149.68 X 150.98	22615	8.283	420.3	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 27/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	149.40 X 151.87 X 149.09	22690	8.000	415.9	18.3	18.3
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.06 X 149.97 X 151.07	22655	8.071	415.3	18.3	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.21 X 150.10 X 149.79	22697	8.283	415.8	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/11/2019

Lab ID	:	CP-2020-01-04-07
Project Name	:	Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/174/2019-20
Date of Receipt	:	22-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.52 X 150.10 X 151.86	22743	8.000	421.0	18.5	18.4
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.93 X 149.25 X 151.83	22676	8.071	412.3	18.2	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.16 X 151.30 X 149.60	22720	8.283	419.6	18.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 27/11/2019

Lab ID	:	CP-2020-01-04-07
Project Name	:	Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/174/2019-20
Date of Receipt	:	22-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.34 X 149.20 X 151.83	22431	8.000	423.5	18.9	18.9
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.45 X 150.83 X 149.41	22843	8.071	433.8	19.0	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	149.80 X 151.93 X 149.47	22759	8.283	430.6	18.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 18/12/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	149.81 X 151.86 X 151.16	22750	8.917	530.4	23.3	23.1
2	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	149.97 X 150.42 X 150.54	22558	8.420	500.2	22.2	
3	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	150.08 X 150.27 X 150.82	22553	8.083	536.0	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-07 **Date: 27/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/174/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.53 X 150.38 X 150.69	22638	8.000	426.8	18.9	18.4
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.82 X 151.92 X 150.32	22913	8.071	422.6	18.4	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.82 X 150.82 X 150.01	22897	8.283	412.9	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/12/2019

Lab ID	:	CP-2020-01-04-07
Project Name	:	Improvements to Roads and Drains at Kenchenahalli Colony Main Road Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/174/2019-20
Date of Receipt	:	22-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	149.18 X 150.68 X 150.57	22478	8.917	534.7	23.8	23.3
2	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	149.19 X 151.58 X 151.91	22615	8.420	504.2	22.3	
3	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	149.50 X 150.29 X 150.35	22469	8.083	536.2	23.9	

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